TCN Generation

The TCN for Texas DPS AFIS submissions is an 11 digit numeric field formatted in the following fashion:

xxyyyzzzzzc where

xx = DPS assigned numbers. This number was originally based upon the transaction type, but now does not have any significance.

yyy = DPS assigned Livescan Identification number (LSID)

zzzzz = a "one up" numbering scheme for submissions from the device in question starting with 00001

c= check digit

The check digit is computed utilizing a modified modulus 10 computation methodology.

Example:

TCN = 0100123456c

The weighting of the relative positions of the TCN alternates between 2 and 1, starting with 2.

 $0 \times 2 = 0$

 $1 \times 1 = 1$

 $0 \times 2 = 0$

 $0 \times 1 = 0$

 $1 \times 2 = 2$

 $2 \times 1 = 2$

 $3 \times 2 = 6$

 $4 \times 1 = 4$ $5 \times 2 = 10$

 $6 \times 1 = 6$

Total 31

Modulus 10 of 31 = 1 (31/10 leaves a remainder of 1)

The check digit will be the complement of 10 for the remainder (10 minus (-) the remainder, in this case 10 - 1 = 9).

The resulting TCN will be 01001234569

Note: When the remainder equals zero the check digit will be zero.